

### **AMENDMENTS TO THE SPECIFICATION**

Please amend the Specification as follows:

**Please amend paragraph [0018] as follows:**

[0018] The function of the electroosmotic pump device 10 will now be described.

Electrolyte-containing solution is introduced into the reservoirs 12, 14, 16 and channels 18, 20, 22 by capillary action or other means. Electrical contact with the electrolyte is achieved through the electrode 26, 28, 30. The white area shown in channel 22 and reservoir 16 represents a region of suppressed electroosmotic flow. Upon establishing a voltage drop between electrode 28 and electrode 30, electroosmotic flow occurs from reservoir 14 to reservoir 16, or vice versa depending on field polarity. Due to suppressed electroosmotic flow in channel ~~[[20]]22~~ relative to channel ~~[[22]]20~~, the unsuppressed electroosmotic flow in channel ~~[[22]]20~~ creates a negative pressure in channel 18 as demanded by the equation of continuity. In turn, the ~~negative~~ pressure results in the convective pumping of electrolyte in channel 18 from reservoir 12 toward reservoir 16.